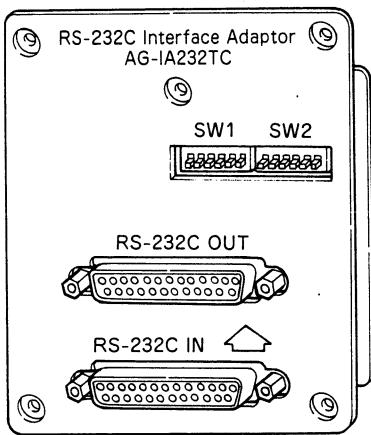


# Service Manual

***Operating Instructions***  
***Block Diagram***  
***Schematic Diagrams &***  
***Circuit Board Diagrams***  
***Exploded View &***  
***Replacement Parts Lists***

**Panasonic**

RS-232C Interface Adaptor  
**AG-IA232TC-E**



## SPECIFICATIONS

ITEM	SPECIFICATIONS
Operating humidity	35% to 80%
Operating temperature	5°C to 40°C (41°F to 104°F)
Dimensions	82mm × 100mm × 28mm (3-1/4"×3-15/16"×1-1/8")
Weight	Approx. 140g (0.3 lbs)

Weight and dimensions shown are approximate.  
 Specifications are to change without notice.

**Panasonic**

# INTRODUCTION

*This service manual contains technical information which will allow service personnels to understand and service the RS-232C Interface Adaptor.*

*By installing this interface adaptor in an AG-7350, AG-7150 or AG-7355 VTR, the VTR can be controlled by a personal computer, for example, via an RS-232C communications interface.*

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# Operating Instructions

## Installation

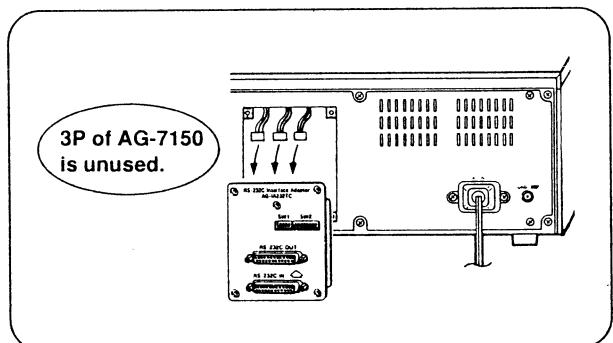
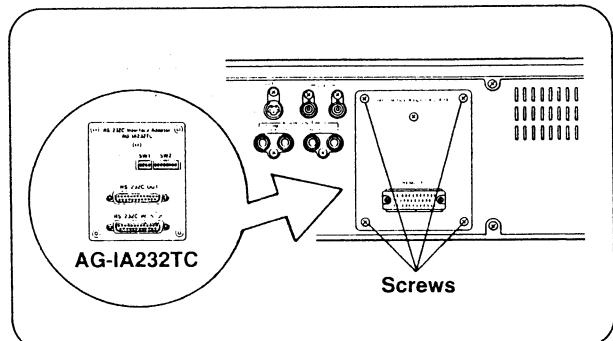
Remove the 34P interface adaptor installed on the VTR.  
■ Remove the four screws indicated in the figure at right.

Install the interface adaptor using the removed screws.

### Precaution

When installing the adaptor, be sure to insert the VTR cable into the interface adaptor, as shown in the figure at right.

■ When using the AG-7150, be sure to insert 10P and 4P only. 3P is unused.

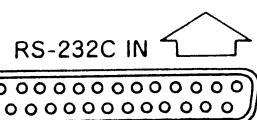
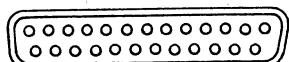


## Connector signals (25P)

### ■ RS-232C Input/Output Connector

Connect the input from a personal computer (or RS-232C output from another VTR) to the RS-232C input connector. Use RS-232C straight (normal) cable.

RS-232C OUT

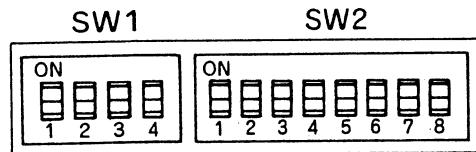


Pin No.	Signal name	Pin No.	Signal name
1	GND	6	Shorted to 20
2	TXD	7	GND
3	RXD	8~19	—
4	Shorted to 5	20	Shorted to 6
5	Shorted to 4	21~25	—

## Description of DIP switches

### SW1

Used to set the RS-232C communications conditions. Set the DIP switches according to the conditions attendant to the personal computer to be connected to the VTR.



#### ■ BIT LENGTH

	7 BIT	8 BIT
SW1	OFF	ON
SW2	OFF	ON

#### ■ STOP BIT

	STOP 1	STOP 2
SW2	OFF	ON

#### ■ BAUD RATE

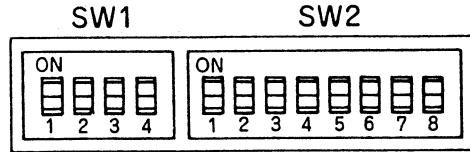
	1200	2400	9600	19200
SW5	OFF	ON	OFF	ON
SW6	OFF	OFF	ON	ON

#### ■ PARITY

	ODD	EVEN	NONE	NONE
SW3	OFF	ON	OFF	ON
SW4	OFF	OFF	ON	ON

### SW2

Used to set the addresses and switch the time code output when performing loop-through. Do not set the addresses for mutually connected VTRs to the same value.



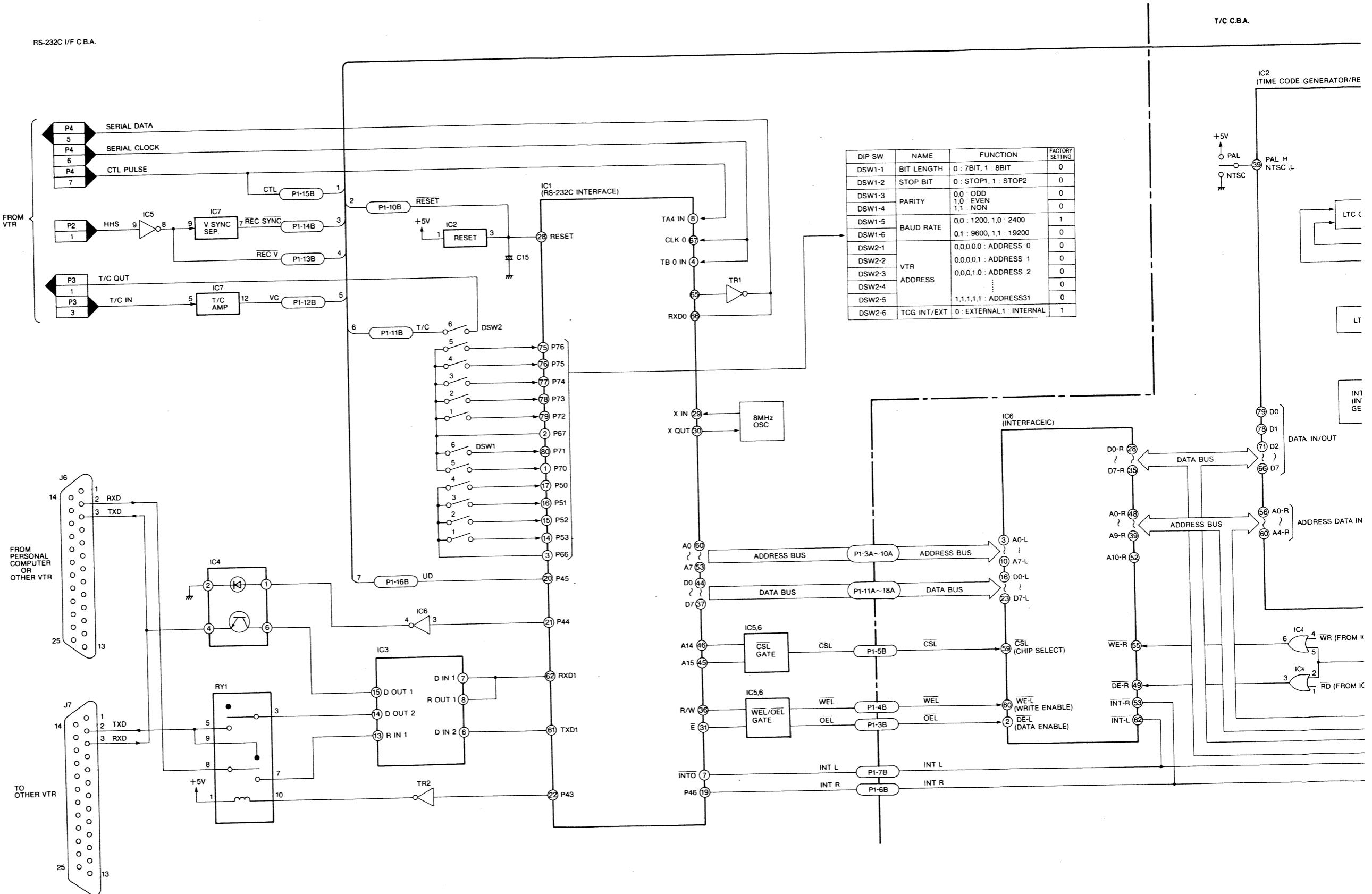
#### ■ ADDRESS

	SW1	SW2	SW3	SW4	SW5
ADDRESS 0	OFF	OFF	OFF	OFF	OFF
ADDRESS 1	ON	OFF	OFF	OFF	OFF
ADDRESS 2	OFF	ON	OFF	OFF	OFF
:					:
ADDRESS 10	OFF	ON	OFF	ON	OFF
:					:
ADDRESS 15	ON	ON	ON	ON	OFF
:					:
ADDRESS 20	OFF	OFF	ON	OFF	ON
:					:
ADDRESS 25	ON	OFF	OFF	ON	ON
:					:
ADDRESS 30	OFF	ON	ON	ON	ON
ADDRESS 31	ON	ON	ON	ON	ON

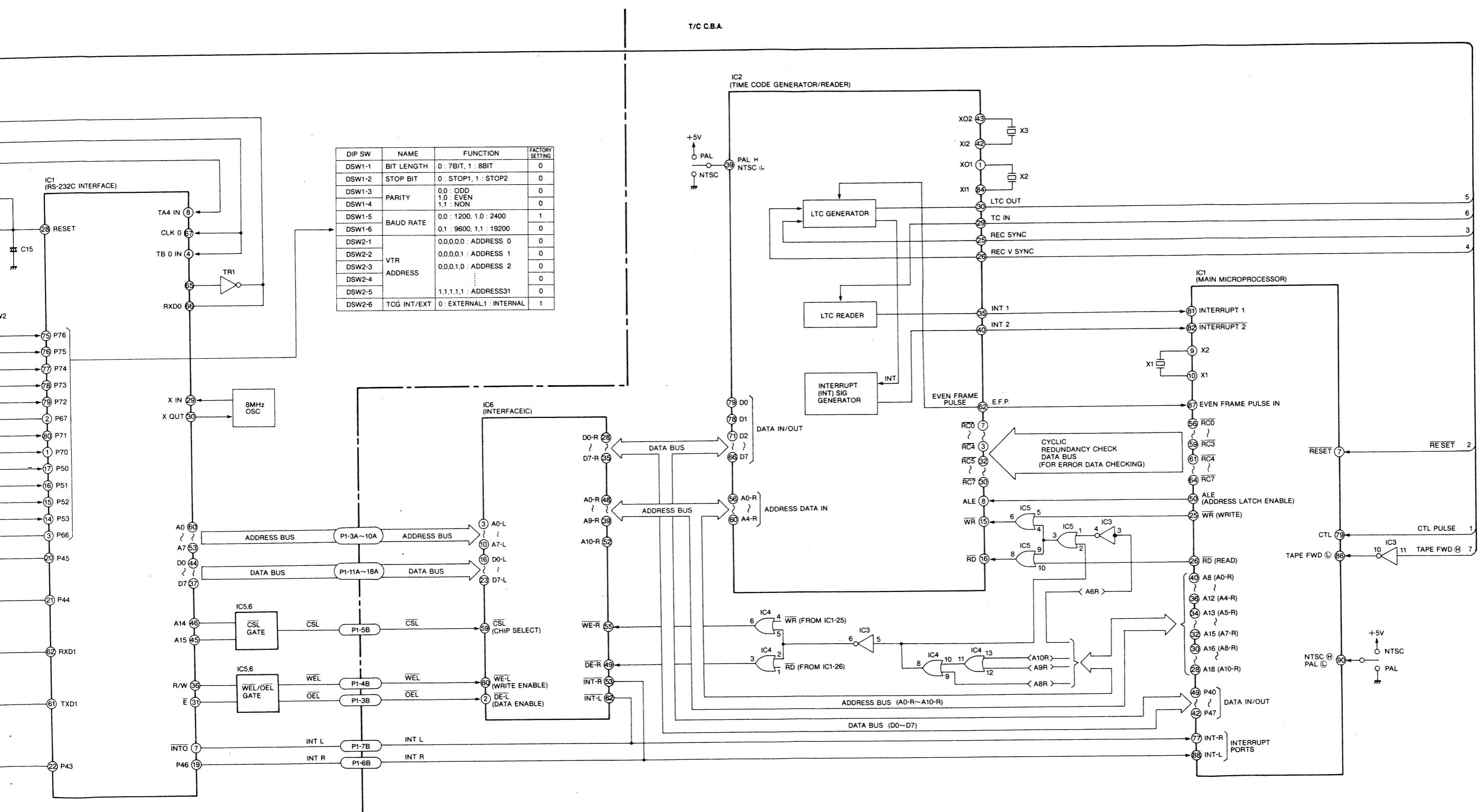
#### ■ TCG INT/EXT

	EXT	INT
SW6	OFF	ON

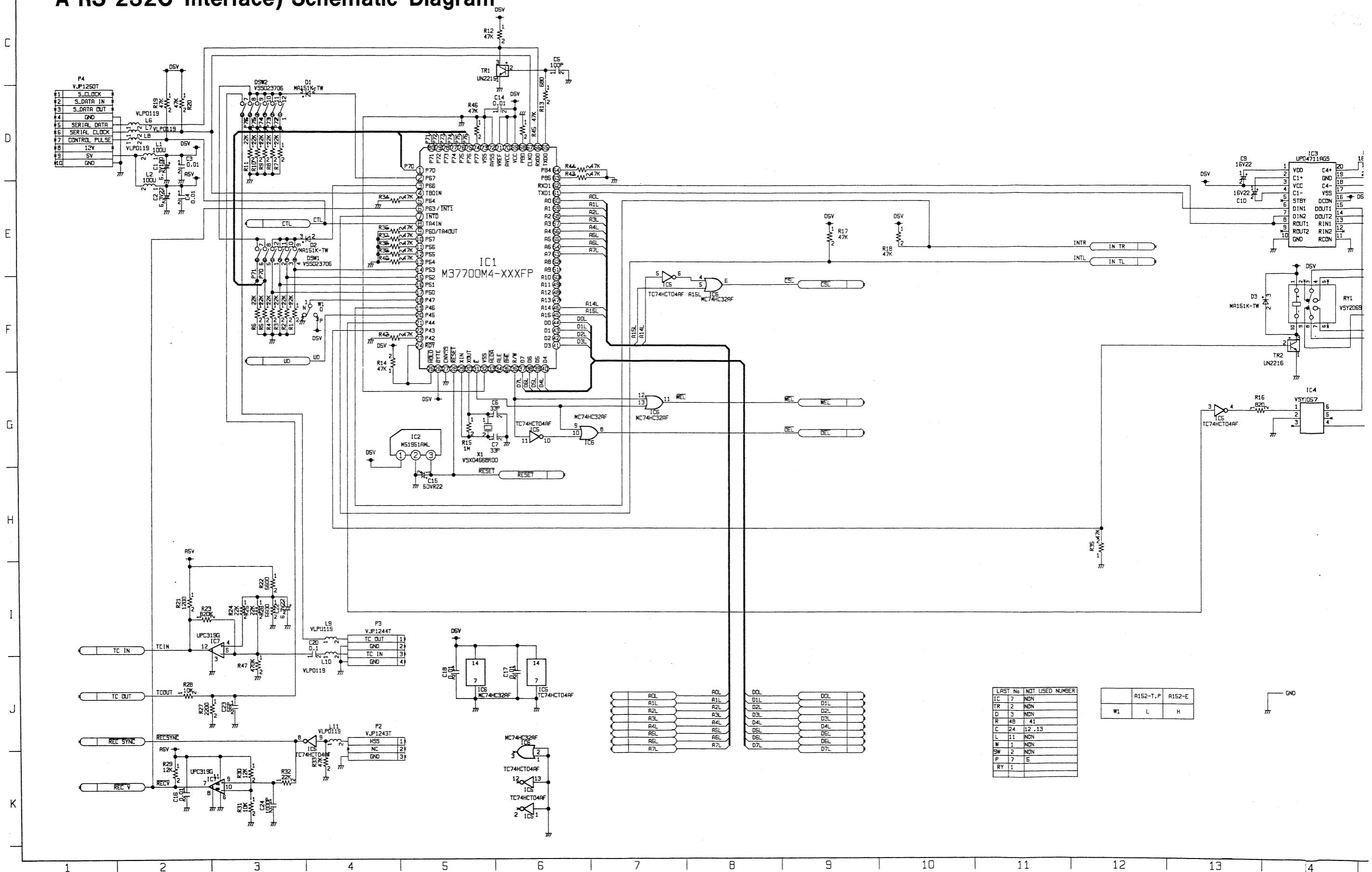
# RS-232C Interface/Time Code Block Diagram

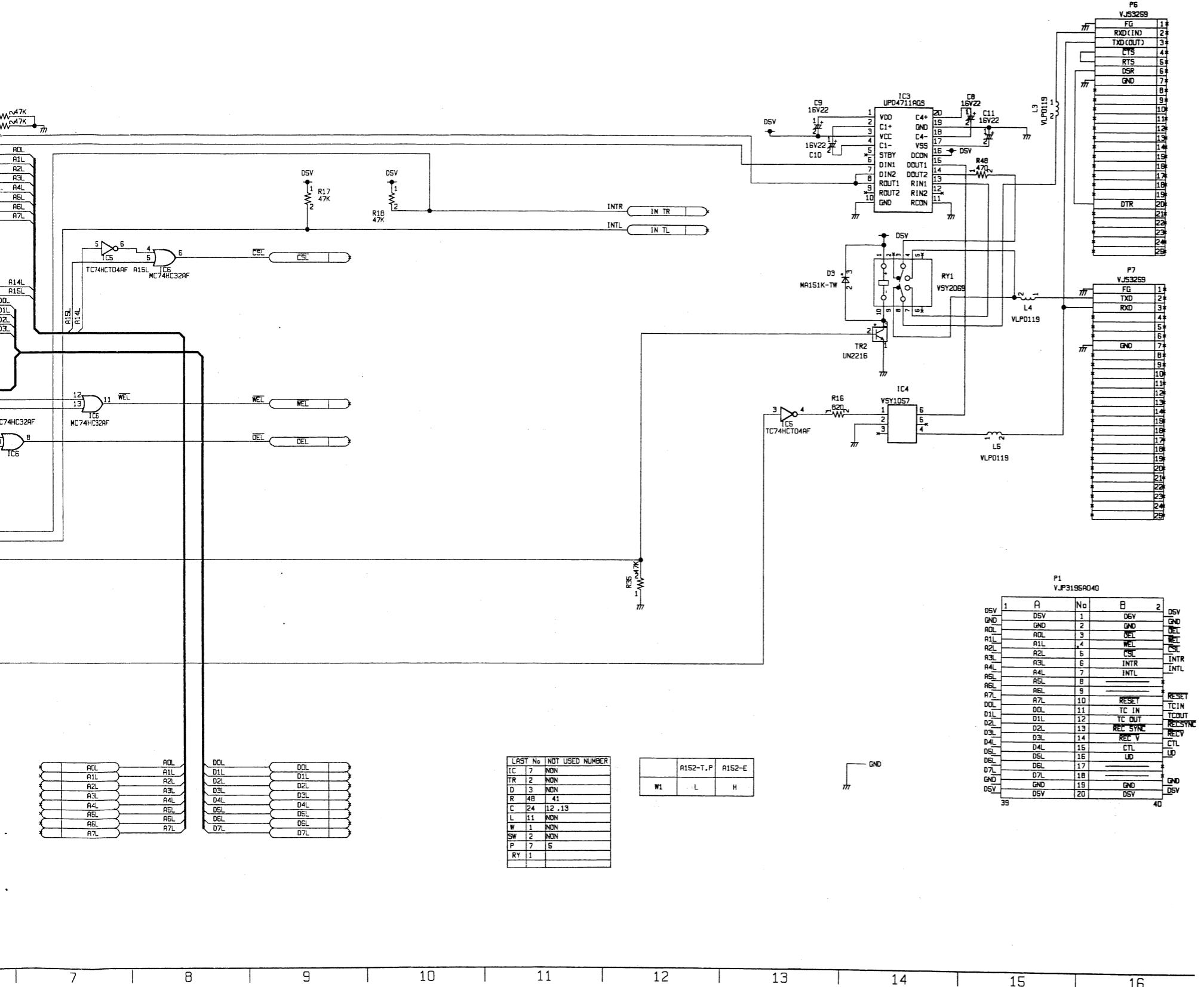


BLK-1

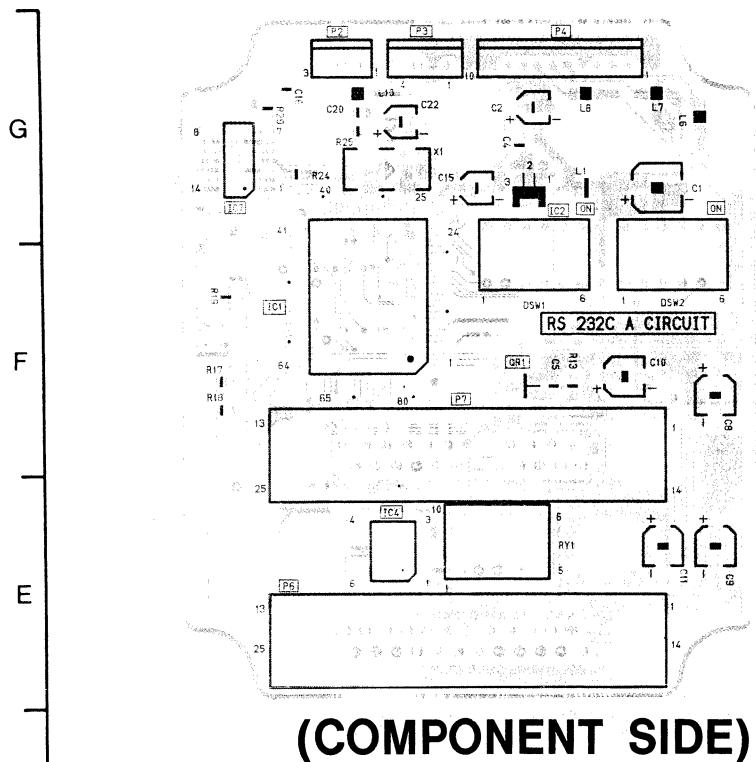


# A RS-232C Interface) Schematic Diagram

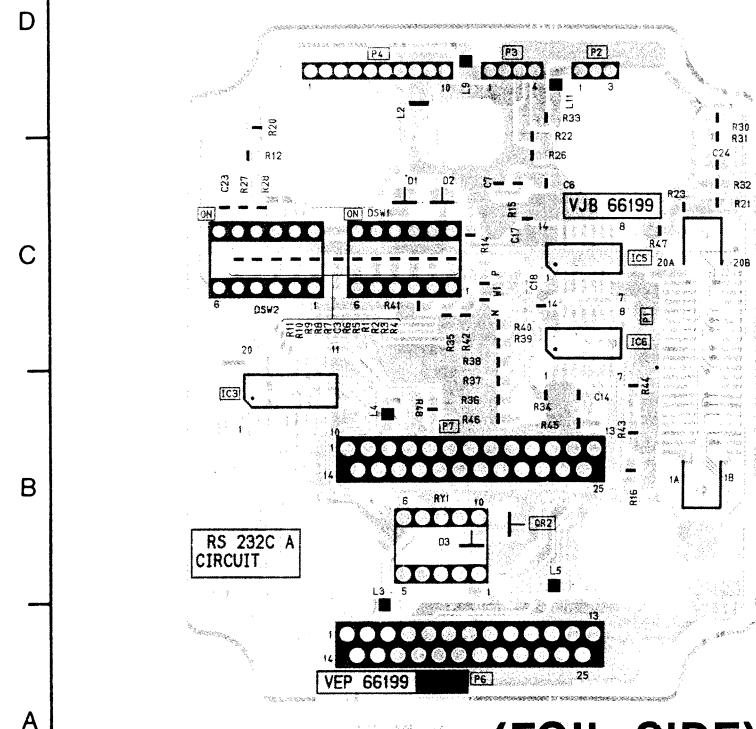




**A (RS-232C Interface) C.B.A.(VEP66199A : NTSC)  
(VEP66199B : PAL)**



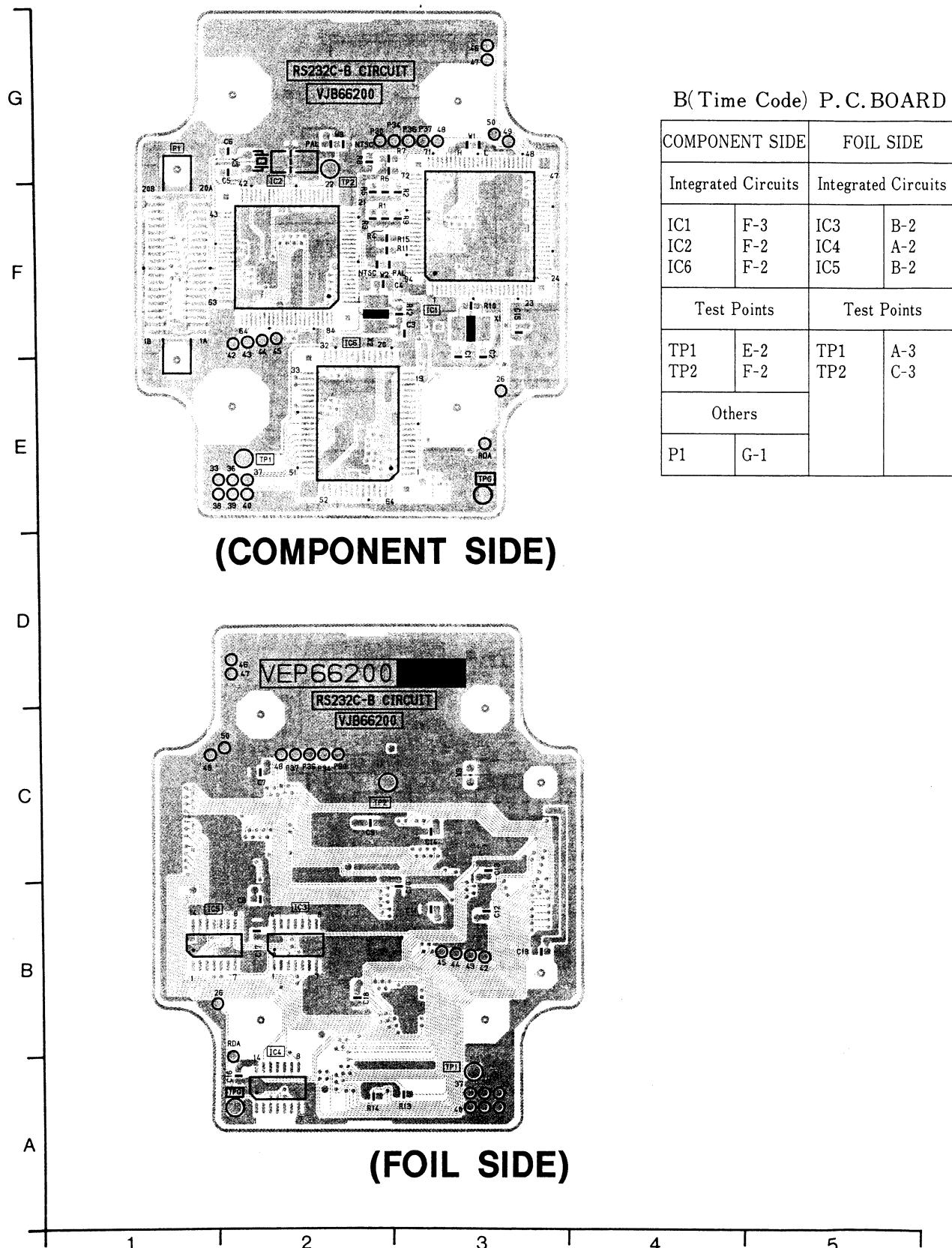
**(COMPONENT SIDE)**



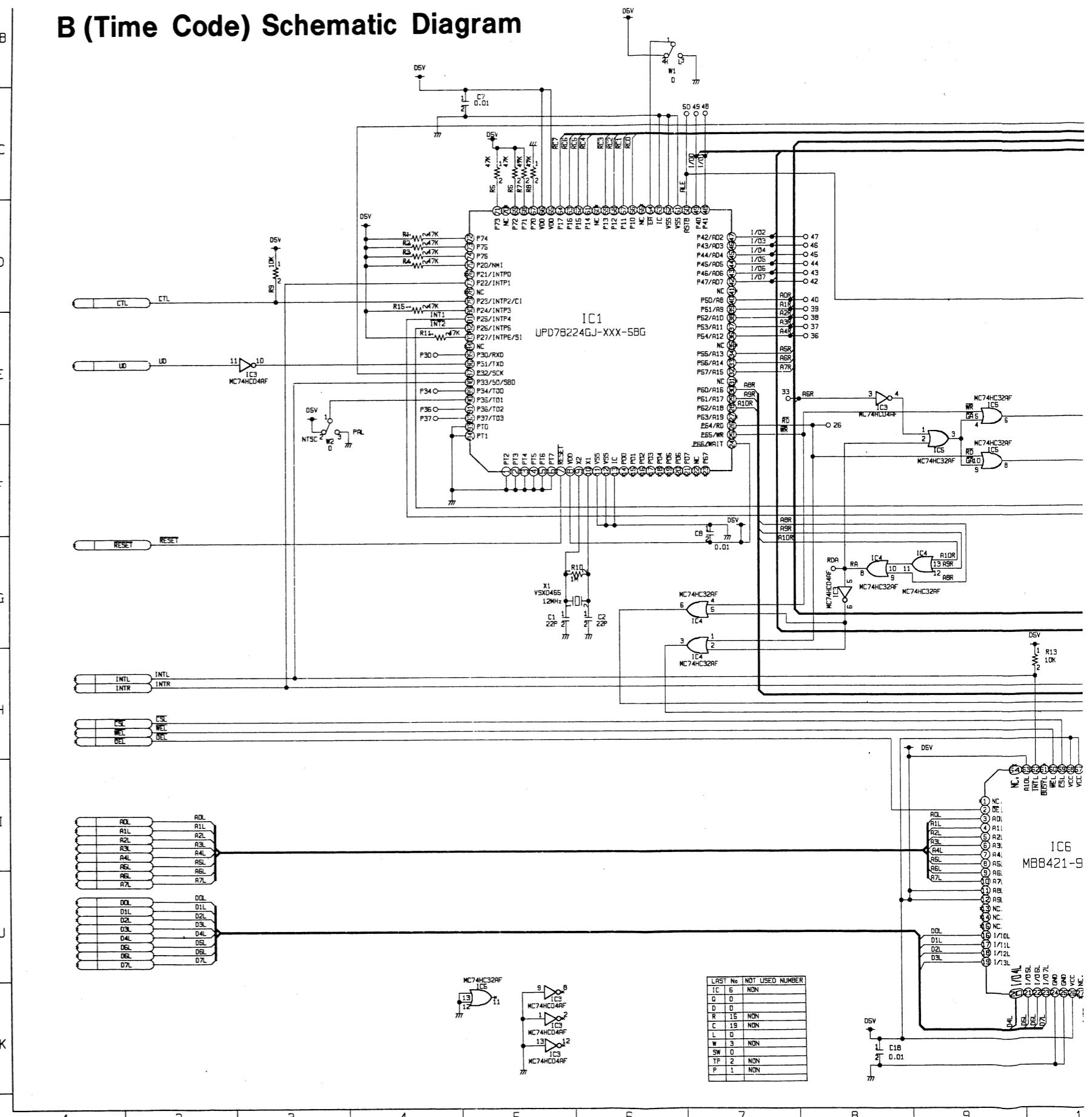
(FOIL SIDE)

A(RS-232C Interface) P.C.BOARD			
COMPONENT SIDE		FOIL SIDE	
Integrated Circuit		Integrated Circuits	
IC1	F-2	IC3	B-1
IC2	G-3	IC5	C-3
IC4	B-2	IC6	C-3
IC7	G-1		
Others		Others	
P2	G-2	P1	C-3
P3	G-2	P2	D-3
P4	G-3	P3	D-2
P6	E-1	P4	D-2
P7	F-2	P7	B-2
Switches		Switches	
DSW1	F-3	DSW1	F-3
DSW2	F-3	DSW2	F-3

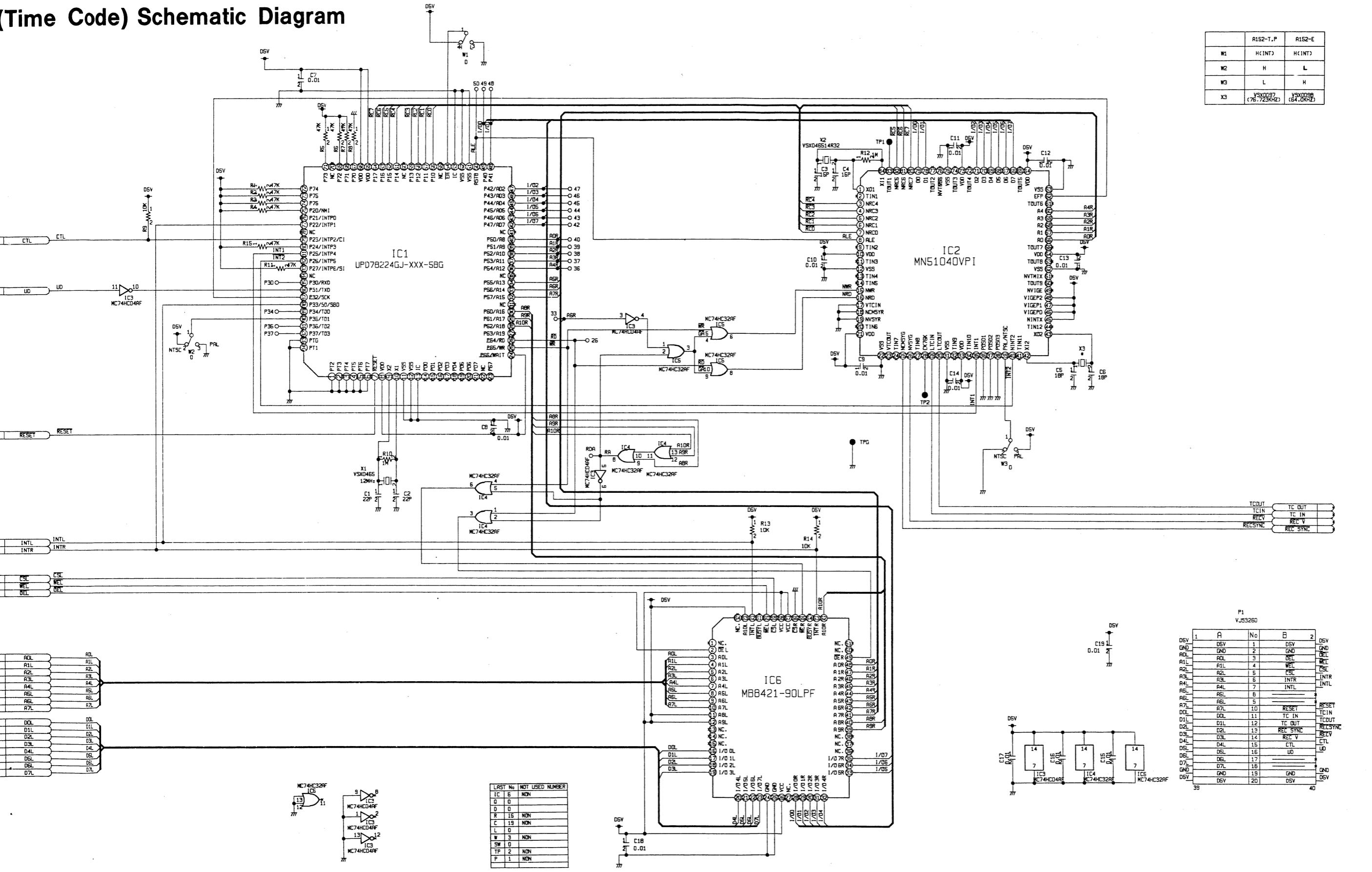
# B (Time Code) C.B.A.(VEP66200A:NTSC) (VEP66200B:PAL)



## **B (Time Code) Schematic Diagram**



# (Time Code) Schematic Diagram



## **EXPLODED VIEWS AND REPLACEMENT PARTS LIST**

## **EXPLODED VIEWS**

## NOTES

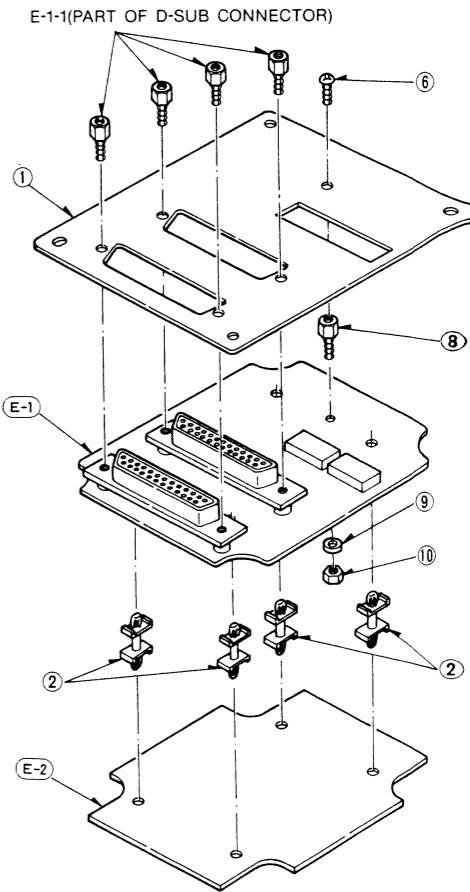
- Be sure to make your orders of replacement parts according to this list.
    - "<R>" in Remark column indicates recommended parts.
    - "<M>" in Remark column indicates needed in the periodical maintenance.
  2. IMPORTANT SAFETY NOTICE

Components identified by "<!>" have special characteristics important for safety.  
When replacing any of these components, use only the original ones.  
Meaning of symbol "<!>" on this parts list is exactly the same as symbol  on Schematic and Circuit Board Diagrams.
  3. Unless otherwise specified ;

All resistors are in ( $\Omega$ ), K=1,000 $\Omega$ , M=1,000k $\Omega$ .  
All capacitors are in (F), U=10<sup>-6</sup> F, P=10<sup>-12</sup> F.
  4. ITEM NUMBERS WITH CAPITAL LETER E

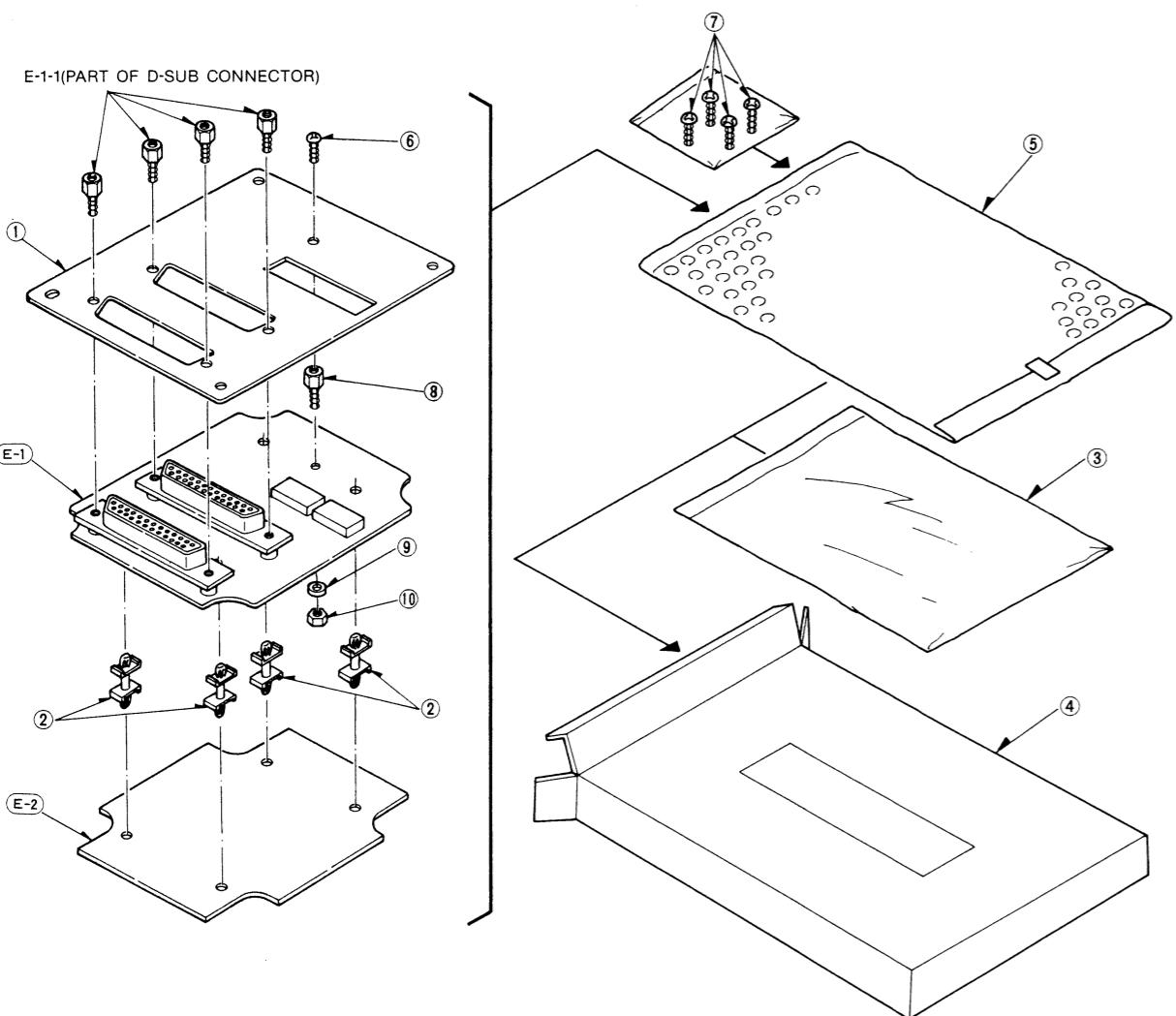
Item numbers with capital leter E (Example:E1, E2,...) in Ref.No. column mean that the parts are listed with the E item numbers in the exploded views.
  5. The main assembled parts are shown below C.B.A. marked with "■".
  6. When ordering parts, use parts No. only form Part No. column.
  7. Printed circuit board assembly with mark (NLA) is no longer available after discontinuation of the product.
  8. Abbreviations for parts ;

-- NAME --	-- DESCRIPTION --
C.CAPACITOR	CERAMIC CAPACITOR
C.CAPACITOR CH	CERAMIC CHIP CAPACITOR
E.CAPACITOR	ELECTROLYTIC CAPACITOR
G.CAPACITOR	GLASS CAPACITOR
M.CAPACITOR	MICA CAPACITOR
P.CAPACITOR	PLASTIC FILM CAPACITOR
S.CAPACITOR	SEMI-CONDUCTOR CAPACITOR
T.CAPACITOR	TANTALUM CAPACITOR
TRIMMER	TRIMMER
C.RESISTOR	CARBON RESISTOR
F.RESISTOR	FUSE RESISTOR
M.RESISTOR	METAL OXIDE RESISTOR
M.RESISTOR CH	METAL OXIDE CHIP RESISTOR
S.RESISTOR	SOLID RESISTOR
V.RESISTOR	VARIABLE RESISTOR
W.RESISTOR	WIRE WOUND RESISTOR
COMBI. TR-R	TRANSITOR-RESISTOR COMBINATION
COMBI. R-R	RESISTOR-RESISTOR COMBINATION
COMBI. C-R-L	CAPACITOR-COIL COMBINATION
C.B.A.	CIRCUIT BOARD ASSEMBLY



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP3439	PLATE	1	
2	VMX2088	C.B.A. HOLDER	4	
3	VQT4476	OPERATING INSTRUCTIONS	1	MULTI LANGUAGE
4	VPK1037	PACKING CASE	1	
5	VPN2445	CUSHION BAG	1	
6	XTV3+6FFZ	SCREW	4	
7	XTV3+8FFZ	SCREW	1	
8	VMS4890	SCREW	1	
9	XWA3B	WASHER	1	
10	XNG3CS	NUT	1	

# EXPLODED VIEWS



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP3439	PLATE	1	
2	VMX2088	C.B.A. HOLDER	4	
3	VQ74476	OPERATING INSTRUCTIONS	1	MULTI LANGUAGE
4	VPK1037	PACKING CASE	1	
5	VPN2445	CUSHION BAG	1	
6	XTV3+6FFZ	SCREW	4	
7	XTV3+8FFZ	SCREW	1	
8	VMS4890	SCREW	1	
9	XWA3B	WASHER	1	
10	XNG3CS	NUT	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP66199A	P.C. BOARD W/COMPONENT	1	(NLA)<R>
		NTSC A (RS-232C I/F)		AG-IA232TC-P ONLY
	VEP66199B	P.C. BOARD W/COMPONENT	1	(NLA)<R>
		PAL A (RS-232C I/F)		AG-IA232TC-E ONLY
	VEP66200A	P.C. BOARD W/COMPONENT	1	(NLA)<R>
		NTSC B (TIME CODE)		AG-IA232TC-P ONLY
	VEP66200B	P.C. BOARD W/COMPONENT	1	(NLA)<R>
		PAL B (TIME CODE)		AG-IA232TC-E ONLY
	■ VEP66199A	P.C. BOARD W/COMPONENT		AG-IA232TC-P ONLY
		NTSC A (RS-232C I/F)		
C1	ECEVOJA101	E. CAPACITOR 6.3V 100U	1	
C2	ECEVOJA220	E. CAPACITOR 6.3V 22U	1	
C3, C4	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2	
C5	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C6, C7	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	2	
C8, C9	ECEV1CA220	E. CAPACITOR CH 10V 22U	2	
C10, 11	ECEV1CA220	E. CAPACITOR CH 10V 22U	2	
C14	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C15	ECEV1HAR22	E. CAPACITOR 50V 0.22U	1	
C16-18	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	3	
C20	ECUM1E1042FN	C. CAPACITOR CH 25V 0.1U	1	
C22	ECEVOJA220	E. CAPACITOR 6.3V 22U	1	
C23	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C24	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
	■ VEP66199B	P.C. BOARD W/COMPONENT		AG-IA232TC-E ONLY
		PAL A (RS-232C I/F)		
D1-D3	MA151K	DIODE	3	<R>
DSW1, W2	VSS023706	SWITCH	2	<R>
IC1	M37700M4170F	IC	1	<R>
IC2	M51951AML	IC	1	<R>
IC3	UPD4711AGS	IC	1	<R>
IC4	VSY1057	RELAY	1	<R>
IC5	TC74HCT04AF	IC	1	<R>
IC6	MC74HC32AF	IC	1	<R>
IC7	UPC319G2	IC	1	<R>
L1, L2	VLQ0319K101	COIL	100UH	2
L3-L9	VLQ0119	COIL		7
L10, 11	VLQ0119	COIL		2
P1	VJP3195A040	CONNECTOR(MALE)	1	
P2	VJP1243T	CONNECTOR(MALE)	3P	1
P3	VJP1244T	CONNECTOR(MALE)	4P	1
P4	VJP1250T	CONNECTOR(MALE)	10P	1
P6, P7	VJS3259	CONNECTOR (FEMALE)	2	
IC1	M37700M4170F	IC		1 <R>
IC2	M51951AML	IC		1 <R>
IC3	UPD4711AGS	IC		1 <R>
IC4	VSY1057	RELAY		1 <R>
IC5	TC74HCT04AF	IC		1 <R>
IC6	MC74HC32AF	IC		1 <R>
IC7	UPC319G2	IC		1 <R>

# EXPLODED VIEWS AND REPLACEMENT PARTS LIST

## EXPLODED VIEWS

### NOTES

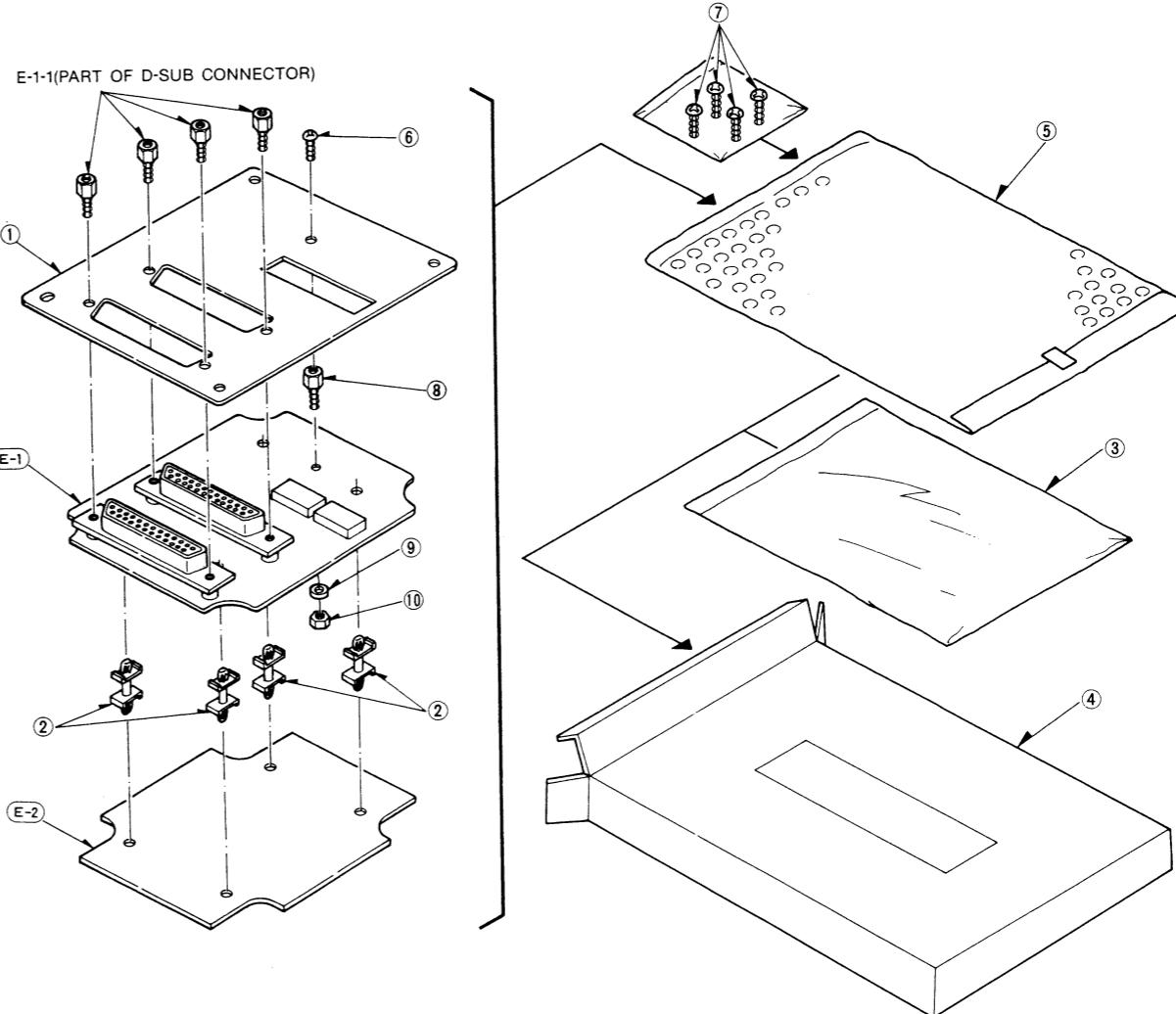
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M.CAPACITOR		MICA CAPACITOR
P.CAPACITOR		PLASTIC FILM CAPACITOR
S.CAPACITOR		SEMI-CONDUCTOR CAPACITOR
T.CAPACITOR		TANTALUM CAPACITOR
TRIMMER		TRIMMER

C.RESISTOR	CARBON RESISTOR
F.RESISTOR	FUSE RESISTOR
M.RESISTOR	METAL OXIDE RESISTOR
M.RESISTOR CH	METAL OXIDE CHIP RESISTOR
S.RESISTOR	SOLID RESISTOR
V.RESISTOR	VARIABLE RESISTOR
W.RESISTOR	WIRE WOUND RESISTOR

COMBI. TR-R TRANSITOR-RESISTOR COMBINATION PARTS  
COMBI. R-R RESISTOR-RESISTOR COMBINATION PARTS  
COMBI. C-R-L CAPACITOR-COIL COMBINATION PARTS

C.B.A. CIRCUIT BOARD ASSEMBLY



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks				
1	VMP3439	PLATE	1					
2	VMX2088	C. B. A. HOLDER	4					
3	VQT4476	OPERATING INSTRUCTIONS	1	MULTI LANGUAGE				
4	VPK1037	PACKING CASE	1					
5	VPN2445	CUSHION BAG	1					
6	XTV3+6FFZ	SCREW	4					
7	XTV3+8FFZ	SCREW	1					
8	VMS4890	SCREW	1					
9	XWA3B	WASHER	1					
10	XNG3CS	NUT	1					

Ref. No.
C1
C2
C3, C4
C5
C6, C7
C8, C9
C10, 11
C14
C15
C16-18
C20
C22
C23
C24
D1-D3
DSW1, W2
IC1
IC2
IC3
IC4
IC5
IC6
IC7
L1, L2
L3-L9
L10, 11
P1
P2
P3
P4
P6, P7
QR1
QR2

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L1, L2	VLQ0319K101	COIL 100UH	2		P1	VJS3260	CONNECTOR(FEMALE)	1	
L3-L9	VLPO119	COIL	7		R1-R8	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	8	
L10, 11	VLPO119	COIL	2		R9	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
P1	VJP3195A040	CONNECTOR(MALE)	1		R10	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
P2	VJP1243T	CONNECTOR(MALE)	3P	1	R11	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
P3	VJP1244T	CONNECTOR(MALE)	4P	1	R12	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
P4	VJP1250T	CONNECTOR(MALE)	10P	1	R13, 14	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
P6, P7	VJS3259	CONNECTOR(FEMALE)	2		R15	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
QR1	UN2215	TRANSISTOR-RESISTOR	1 <R>		X1	VSX0499	CRYSTAL OSCILLATOR	1 <R>	
QR2	UN2216	TRANSISTOR	1 <R>		X2	VSX0498	CRYSTAL OSCILLATOR	1 <R>	
R1-R9	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	9		X3	VSX0097	CRYSTAL OSCILLATOR	1 <R>	
R10, 11	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2		■ VEP66200B	P.C. BOARD W/COMPONENT	AG-IA23?TC-E ONLY		
R12	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1				PAL B (TIME CODE)		
R13	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1		C1, C2	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
R14	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1		C3, C4	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
R15	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1		C5, C6	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
R16	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1		C7-C9	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
R17-20	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	4		C10-19	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	10	
R21	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1						
R22	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1						
R23	ERJ6GEYJ824	M.RESISTOR CH 1/10W 820K	1						
R24, 25	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2						
R26	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1						
R27	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1						
R28	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1						
R29, 30	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	2						
R31	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1						
R32	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1						
R33-40	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	8						
R42-46	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	5						
R47	ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1						
R48	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1						
RY1	VSY2069	RELAY	1						
X1	VSX04668R00	CRYSTAL OSCILLATOR	1 <R>						
■ VEP66200A	P.C. BOARD W/COMPONENT	AG-IA232TC-P ONLY							
		NTSC B (TIME CODE)							
C1, C2	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2						
C3, C4	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2						
C5, C6	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2						
C7-C9	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3						
C10-19	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	10						
IC1	UPD78224J573	IC	1 <R>						
IC2	MN51040VPI	IC	1 <R>						
IC3	MC74HC04AF	IC	1 <R>						
IC4, C5	MC74HC32AF	IC	2 <R>						
IC6	MB8421-90LPF	IC	1 <R>						

**WARNING**  
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service manual by anyone else could result in serious injury or death.

Order No. VSD9501S287  
D1

# Service Manual

## Supplement

PAL / NTSC

Video Product

### Subject: Change of Microcomputer

Please use this supplement together with the Service Manual as follows:

Model No.	Bulletin No.	Order No.	Effective from
AG-IA232TCP	6	VSD9109M211	E4 - - -
AG-IA232TCE	5	VSD9109M614	E4 - - -

Board :

#### Reason for Change

- The following part(s) has(have) been changed for serviceability improvement.
- The following part(s) has(have) been changed for productivity improvement.
- The following part(s) has(have) been changed for standardization.
- The following part(s) has(have) been changed for the safety regulation.
- 

#### Interchangeability Code (I/C)

A	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.	B	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts possible then stock new parts.
C	New parts only may be used in early or late production sets.	D	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E	Other		

#### Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	I/C	Remarks
IC1	UPD78224J578	UPD78224J603	IC	1	A	

SE2-0641

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**I Warning**

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Order No. VSD9506S212  
D1,D2,D4

# Service Manual

## Supplement

NTSC / PAL

Video Product

### Subject :Change of IC

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AG-IA232TC-P	7	VSD9109M211	'95 Running change
AG-5700-P	18	VSD9110M213	'95 Running change
AG-IA670P	3	VSD9210M228	'95 Running change
AG-6760P	32	VSD9210M227	'95 Running change
AG-A570P	1	VSD9205M221	'95 Running change
AG-7530RP	14	VSD9203M216	'95 Running change
AG-7355RP	14	VSD9203M216	'95 Running change
AG-IA823P	2	VSD9403M247	'95 Running change
AG-A570E/B	2	VSD9205M623	'95 Running change
AG-IA232TC-E <i>V19.05.12</i>	6	VSD9109M614	'95 Running change
AG-IA670E	2	VSD9210M627	'95 Running change
AG-5700-E	16	VSD9202M619	'95 Running change

### Reason for Change

- The following part(s) has(have) been changed for serviceability improvement.
- The following part(s) has(have) been changed for productivity improvement.
- The following part(s) has(have) been changed for standardization.
- The following part(s) has (have) been changed for the safety regulation.
- 

### Interchangeability Code ( I/C )

A	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts possible then stock new parts.
C	New parts only may be used in early or late production sets.
D	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E	Others

### Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	I/C	Remarks
IC102,5	UPD4711AGS	UPD4711BGS	IC	2	A	AG-A570P, AG-A570E/B
IC3	UPD4711AGS	UPD4711BGS	IC	1	A	AG-7350RP, AG-7355RP, AGIA232TC-P, AG-IA232TC-E
IC6504	UPD4711AGS	UPD4711BGS	IC	1	A	AG-IA823P
IC6904	UPD4711AGS	UPD4711BGS	IC	1	A	AG-6760P, AG-IA670P, AG-IA670E
IC3	UPD4711AGS	UPD4711BGS	IC	1	A	AG-5700-P, AG-5700-E

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